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# Water Supply Outlook For Nevada



SOIL CONSERVATION SERVICE  
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

NEVADA DEPARTMENT of CONSERVATION  
AND NATURAL RESOURCES  
DIVISION OF WATER RESOURCES

AS OF  
May 1, 1981

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*COVER PHOTO: SNOW SURVEYORS MAKING SPECIAL MEASUREMENTS OF  
THE SNOWPACK NEAR MT. ST. HELENS VOLCANO, WASHINGTON, APRIL 1980.*

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.





# ***WATER SUPPLY OUTLOOK FOR NEVADA***

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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*All averages are for 1963-1977 period.*

# WATER SUPPLY OUTLOOK FOR NEVADA

\* \* \* \* \*  
\*  
\* STREAMFLOWS THIS SUMMER WILL BE MUCH BELOW AVERAGE. FORECASTS OF  
\* APRIL THROUGH JULY RUNOFF HAVE BEEN REDUCED 5 TO 10 PERCENT BELOW  
\* THE FORECASTS ISSUED APRIL 1, 1981. BELOW AVERAGE PRECIPITATION,  
\* AND ABOVE AVERAGE TEMPERATURES HAVE CONTRIBUTED TO THIS REDUCTION.  
\*  
\* SNOW MEASUREMENTS FOR MAY 1 INDICATE SNOW WATER RANGING FROM 25  
\* TO 50 PERCENT OF AVERAGE, BUT ARE STILL ABOVE THOSE RECORDED ON  
\* MAY 1, 1976 AND 1977.  
\*  
\* RESERVOIR STORAGE IS NEAR AVERAGE EXCEPT LAKE TAHOE. HOWEVER, THE  
\* PERCENTAGE OF TOTAL WATER STORED IN THE SEVEN MAJOR RESERVOIRS IS  
\* DECREASING AS THE DEMAND FOR WATER INCREASES.  
\*  
\* \* \* \* \*

## SIERRA EAST SLOPE

Snow course measurements indicate the snow water in the snowpack is much below average for May 1. Water contents as compared to average are now 39 percent in the Truckee Basin; 28 percent in the Tahoe Basin; 54 percent in the Carson Basin; and 45 percent in the Walker Basin. During the last seven days of April, many snow courses were melting 1.0 inch of water per day with some courses melting 2.0 inches per day.

Warm weather, winds, and below average precipitation have rapidly depleted the existing snowpack. Snow courses with the largest amounts of water were Squaw Valley with a 55-inch depth containing 23.9 inches of water as compared to an average of 51.7 inches of water; Blue Lakes a 49-inch depth and 20.4 inches of water, with an average of 33.7 inches of water; and Independence Lake with a 53-inch depth and 23.1 inches of water and an average of 46.9 inches of water.

Forecasts for this summer streamflows have been reduced 5 to 10 percent of the April 1 forecasts. Lake Tahoe Rise, assuming the gates are closed, is predicted at .65 feet for 46 percent of average. The Truckee River at Farad streamflow, April through July, is predicted to be 130,000 acre-feet for 48 percent of average. Forecasts for runoff for the Carson and Walker Rivers range from 51 to 65 percent of average.

Reservoir storage is near average except in Lake Tahoe. The current usable storage in Lake Tahoe is 393,000 acre-feet for 77 percent of average and 54 percent of total usable capacity.

## HUMBOLDT BASIN

Snow course measurements, SNOTEL and aerial marker readings indicate the snow water in the snowpack is 23 percent of average and only 33 percent of last year. Warm weather and below average precipitation during the month have contributed to the low snowpack.

The only sites with measurable snow were above 8,000 feet. Many SNOTEL sites are indicating snowmelt rates of 1/2 to 1 inch per day. The existing snowpack will be depleted quickly. However, cool temperatures will retard the melt rate.

Streamflow predictions for this summer are for runoff to be much below average this season. The April flow in the Humboldt River at Palisade was only 29 percent of average.

Rye Patch Reservoir storage is now 148,000 acre-feet, less than last month's 168,000 acre-feet and last year's May 1 reading of 163,000 acre-feet.

## OWYHEE AND SNAKE BASINS

Snow course measurements, SNOTEL and aerial marker readings indicate snow water in the snowpack is 30 percent of average in the Owyhee Basin and 48 percent in the Snake River Basin. As in other basins, the snow line is at the higher elevations.

Runoff this summer will be considerably below average. Wild Horse Reservoir contains 53,000 acre-feet as compared to last May 1 of 63,000 acre-feet.

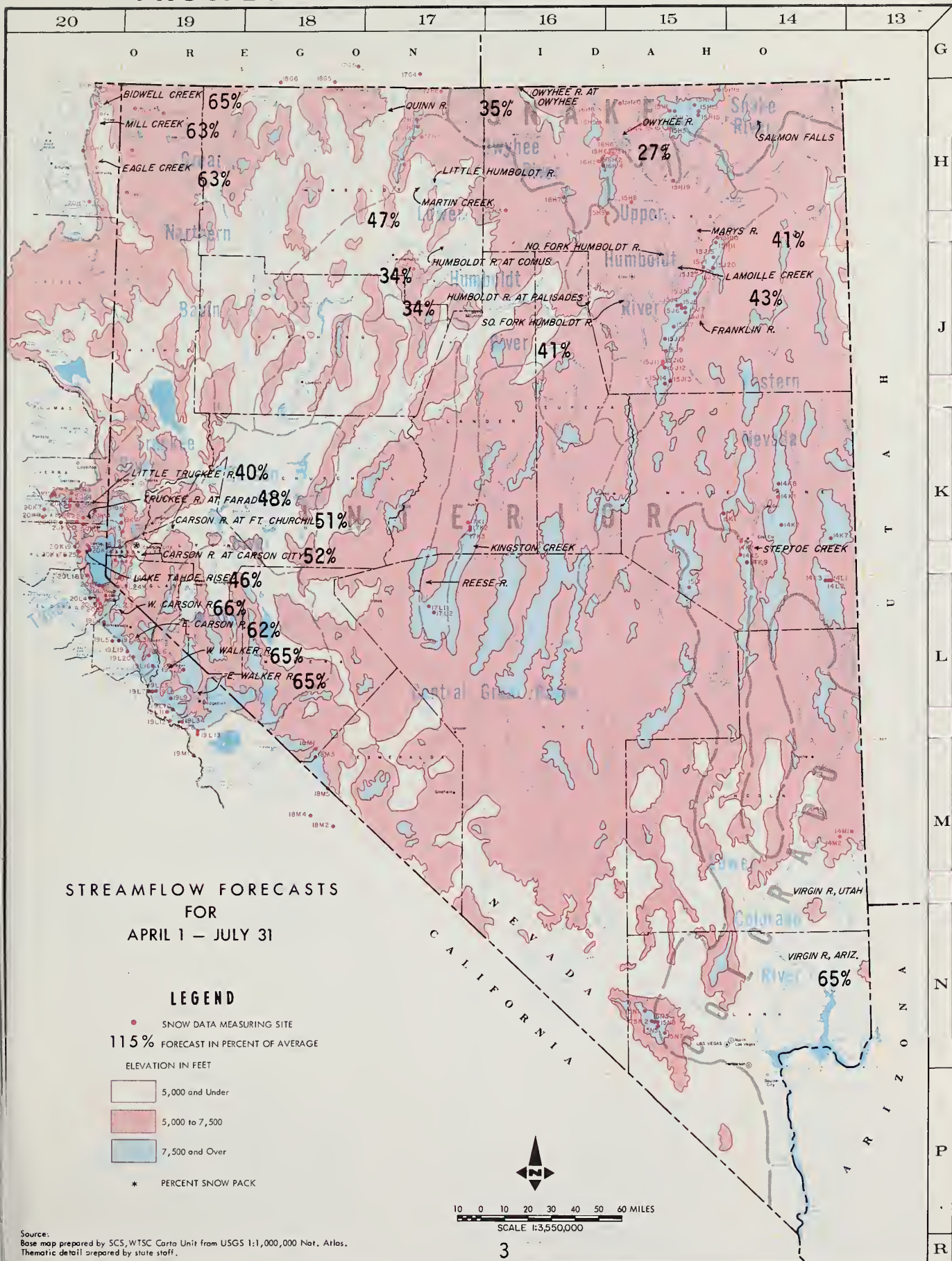
## OTHER BASINS

Only a limited number of snow courses are measured for May 1 but the snow water is below average. Daily readings from SNOTEL sites indicate snow on only the high elevation sites.

Streamflow this summer will be much below average.



# PROSPECTIVE WATER SUPPLY FOR NEVADA



Source:  
Base map prepared by SCS, WTSC Carta Unit from USGS 1:1,000,000 Nat. Atlas.  
Thematic detail prepared by state staff.

# INDEX TO NEVADA SNOW COURSES

(By Basins)

Refer to the map on the preceeding page for Snow Course locations.

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
SNAKE RIVER BASIN						LAKE TAHOE					
SNAKE RIVER						20L6S	Echo Peak (CA)	35	12N	17E	7800
15H15MA	Bear Creek	31	46N	58E	7800	20L5	Echo Summit (CA)	6	11N	18E	7450
15H2	Fox Creek	33	46N	58E	6800	20L105	Fallen Leaf (CA)	36	13N	17E	6300
15H135A	Goat Creek	31	46N	60E	8800	19L2	Freel Bench (CA)	36	12N	18E	7300
15H15A	Hummingbird Springs	6	45N	60E	8945	19K6	Glenbrook #2	13	14N	19E	6900
15H20a	Merritt Mountain	10	46N	54E	7000	19L3M5	Hagans Meadow (CA)	36	12N	18E	8000
15H145A	Pole Creek Ranger Station	13	46N	59E	8330	19L245	Heavenly Valley (CA)	1	12N	18E	8850
15H18a	Red Point	15	47N	61E	7940	20L4	Lake Lucille (CA)	28	12N	17E	8200
15H35A	76 Creek	6	44N	58E	7100	19K4M5	Marlette Lake	18	15N	19E	8000
15H19a	Stag Mountain	32	41N	58E	7800	20L3	Richardsons #2 (CA)	6	13N	17E	8100
OWYHEE RIVER						20L1	Rubicon #1 (CA)	6	13N	17E	7500
15H45M	Big Bend	30	45N	56E	6700	20L2	Rubicon #2 (CA)	6	13N	17E	7500
16H6a	Columbia Basin	31	44N	53E	6650	20K16	Tahoe City (CA)	7	15N	17E	6250
16H8a	Fawn Creek	2	45N	52E	7000	20K26	Tahoe City Alt. (CA)	7	15N	17E	6300
15H5	Gold Creek	32	45N	56E	6600	20K275	Tahoe City Cross (CA)	1	15N	16E	6750
16H1M	Jack Creek, Lower	18	42N	53E	6800	19L1	Upper Truckee (CA)	21	12N	18E	6400
16H25AM	Jack Creek, Upper	9	42N	53E	7250	20K25	Ward Creek (CA)#3	21	15N	16E	6750
16H45	Jacks Peak	21	42N	53E	8420	20K17	Ward Creek #2 (CA)	21	15N	16E	7000
16H55	Laurel Draw	20	45N	53E	6700	TRUCKEE RIVER					
17G4a	Louse Canyon (OR)	27	40S	44E	6440	20K14	Boca #2 (CA)	28	18N	17E	5900
15H9MP	Taylor Canyon	35	39N	53E	6200	20K22	Brockway Summit (CA)	3	17N	16E	7100
INTERIOR						20K21	Donner Park #2 (CA)	18	17N	16E	6000
UPPER HUMBOLDT RIVER						20K10	Donner Summit (CA)	25	17N	14E	6900
15J17a	American Beauty	32	31N	58E	7800	20K7*	Fordyce Lake (CA)	34	18N	13E	6500
15J125A	Corral Canyon	27	28N	57E	8500	20K8*	Furnace Flat (CA)	10	17N	13E	6700
15J15M	Oorsey Basin	28	35N	60E	8100	20K4M5	Independence Camp (CA)	34	19N	15E	7000
15J3	Ory Creek	5	34N	60E	6500	20K35	Independence Creek (CA)	14	19N	15E	6500
15H7	Fry Canyon	31	43N	54E	6700	20K55	Independence Lake (CA)	9	18N	15E	8450
15J95M	Green Mountain	23	29N	57E	8000	19K3	Little Valley	17	16N	19E	6300
15J10	Harrison Pass #1	9	28N	57E	6600	19K25	Mt. Rose	7	17N	19E	9000
15J11	Harrison Pass #2	16	28N	57E	7400	19K7	Mt. Rose Ski Area	30	17N	19E	9000
15J4	Lamoille #1	15	32N	58E	7100	20K6	Sage Hen Creek (CA)	7	18N	16E	6500
15J65	Lamoille #3	24	32N	58E	7700	20K19	Squaw Valley #2 (CA)	6	15N	16E	7500
15J8P	Lamoille #5	31	32N	59E	8700	20K135	Truckee #2 (CA)	22	17N	16E	6400
15J20	Pole Canyon #2	6	34N	61E	7700	20K2*	Webber Lake (CA)	29	19N	14E	7000
15J16a	Robinson Lake	23	33N	59E	9200	20K1*	Webber Peak (CA)	30	19N	14E	8000
15H6MP	Rodeo Flat	36	43N	53E	6800	CARSON RIVER					
15J2	Ryan Ranch	1	34N	59E	5800	19L5	8lue Lakes (CA)	30	9N	19E	8000
15J19	Smith Creek	26	30N	57E	7600	19L4	Carson Pass, Upper (CA)	22	10N	18E	8600
15H8	Tremewan Ranch	9	39N	55E	5700	19K5	Clear Creek	6	14N	19E	7300
15H10P	Trout Creek, Lower	28	37N	61E	6900	19L19A	Ebbetts Pass (CA)	17	8N	20E	8700
15H11A	Trout Creek, Upper	4	36N	61E	8500	19L16a	Fish Valley, Upper (CA)	1	7N	22E	8050
LOWER HUMBOLDT RIVER						19L065	Poison Flat (CA)	25	8N	21E	7900
17K1	Big Creek Campground	10	17N	43E	6600	19L315	Wet Meadows #2 (CA)	26	9N	19E	8050
17K2	Big Creek Mine	23	17N	43E	7600	19L18A	Wet Meadows Lake (Cal.)	25	9N	19E	8100
17K3	Big Creek, Upper	26	17N	43E	7800	19L20a	Wolf Creek (Cal.)	35	8N	20E	8000
17H2	Buckskin, Lower	25	45N	39E	6700	WALKER RIVER					
17H1	Buckskin, Upper	11	45N	39E	8200	19L11	Buckeye Forks (CA)	20	4N	23E	8500
17L1	Corral, Lower	12	11N	40E	7500	19L10	Buckeye Roughs (CA)	15	4N	23E	7900
17L2	Corral, Upper	20	11N	41E	8000	19L12	Center Mountain (CA)	4	3N	23E	9400
17J2	Golconda #2	22	35N	39E	6000	19L8	Leavitt Meadows (CA)	4	5N	22E	7200
17H4	Granite Peak	22	44N	39E	7800	19L175A	Loddell Lake (CA)	20	7N	24E	9200
17H5	Lamance Creek	13	42N	38E	6000	19L34	Sawmill Ridge (CA)	17	3N	24E	8750
17H3	Martin Creek	13	44N	39E	6700	19L7	Sonora Pass (CA)	1	5N	21E	8800
16H3AP	Midas	18	39N	46E	7200	19L235	Sonora Pass Bridge (CA)	6	5N	22E	8800
16H7a	Toe Jam	29	40N	50E	7700	19M1*	Tioqa Pass (CA)	30	1N	25E	9900
EASTERN NEVADA						19L13	Virginia Lakes (CA)	5	2N	25E	9500
14L1	Baker #1	29	13N	69E	7950	19L22M5	Virginia Lakes Ridge (CA)	32	2N	25E	9200
14L2	Baker #2	30	13N	69E	8950	19L9	Willow Flat (CA)	21	5N	23E	8250
14L3	Baker #3	25	13N	68E	9250	COLORADO					
14K25	Serry Creek	26	17N	65E	9100	LOWER COLORADO RIVER					
14K1	Sird Creek	34	19N	65E	7500	15N5	Kyle Canyon	27	19S	56E	8200
14K9a	Defiance Mines	9	14N	63E	9200	15N3	Lee Canyon #2	9	19S	56E	9200
15J15	Hole-in-Mountain	6	35N	61E	7900	15N8	Lee Canyon #3	10	19S	56E	8500
14K8	Kalamazoo Creek	34	20N	65E	7400	14M1	Mathew Canyon	10	6S	70E	6000
14K3	Murray Summit	25	16N	62E	7250	14M2	Pine Canyon	23	6S	69E	6200
15K1	Robinson Summit	34	18N	61E	7600	15N7	Rainbow Canyon #2	6	20S	57E	8100
14K7	Silver Creek #2	30	16N	69E	8000	15L1	White River #1	31	13N	59E	7400
14K5	Ward Mountain #2	25	15N	62E	8900	LEGEND					
CENTRAL GREAT BASIN						NUMBERING SYSTEM (EXAMPLE)					
18M2	Campito Mountain (CA)	19	5S	35E	10200	19K4	Snow Course Only				
18M5a	Chistovich Flat (CA)	32	2S	34E	10500	19K45	Snow Course with SNOTEL				
15N2	Clark Canyon	8	19S	56E	9000	19K4M	Snow Course and Soil Moisture				
18M1	Montgomery Pass	4	1N	33E	7100	19K4A	Snow Course and Aerial Marker				
18M3a	Pinchot Creek (CA)	28	1N	33E	9300	19K4P	Snow Course and Storage Precipitation Gage				
18M4a	Piute Pass (CA)	33	4S	33E	11700	19K4MA	Snow Course, Soil Moisture and Aerial Marker				
15N1	Trough Springs	23	18S	55E	8500	19K4MP	Snow Course, Soil Moisture, and Precipitation Gage				
NORTHERN GREAT BASIN						Lower case letter "a" indicates no snow course, only an Aerial Marker. SNOTEL has telemetered data for snow pillows, precipitation gage and temperature.					
19H1a	Bald Mountain	17	45N	21E	6270						
20H5	Barber Creek (CA)	23	39N	16E	6500						
20H6	Cedar Pass (CA)	12	43N	14E	7100						
18G6a	Denio Creek (OR)	14	41S	34E	6000						
18H1	Disaster Peak	8	47N	34E	6500						
20H3a	Oismal Swamp (CA)	31	48N	17E	7000						
20H7	Eagle Peak (CA)	35	40N	15E	7200						
19H3	49 Mountain	7	42N	19E	6000						
19H2	Hays Canyon	1	39N	18E	6400						
19H4a	Little Bally Mountain	8	45N	19E	6000						
20H9	Mt. Bidwell (CA)	6	47N	16E	7200						
20H10	North Star (CA)	13	47N	16E	6200						
17G5a	Oregon Canyon (OR)	9	40S	40E	7240						
17H6a	Quinn Ridge	9	47N	41E	6300						
20H4	Reservation Creek (CA)	12	46N	15E	5900						
18G5a	Trout Creek (OR)	10	41S	38E	7800						



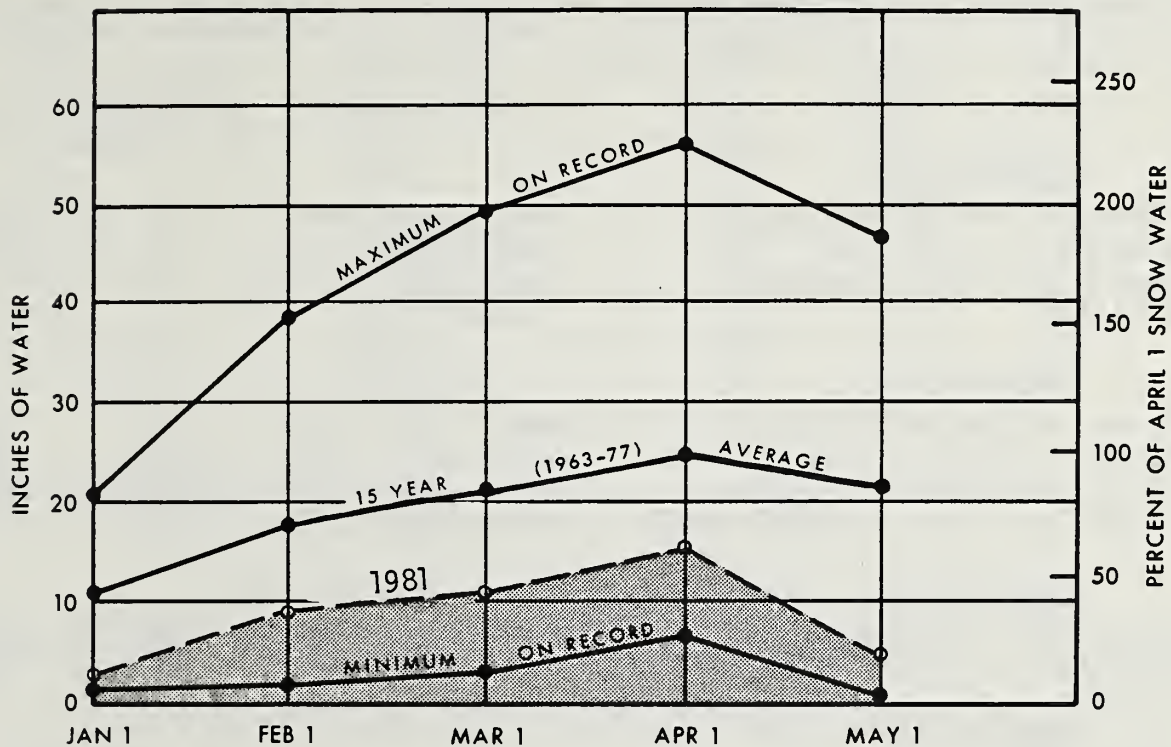
# WINTER SNOWPACK

## TAHOE, TRUCKEE, CARSON & WALKER BASINS

### CALIFORNIA - NEVADA

#### 1981

Data based on 9 long term Snow Courses



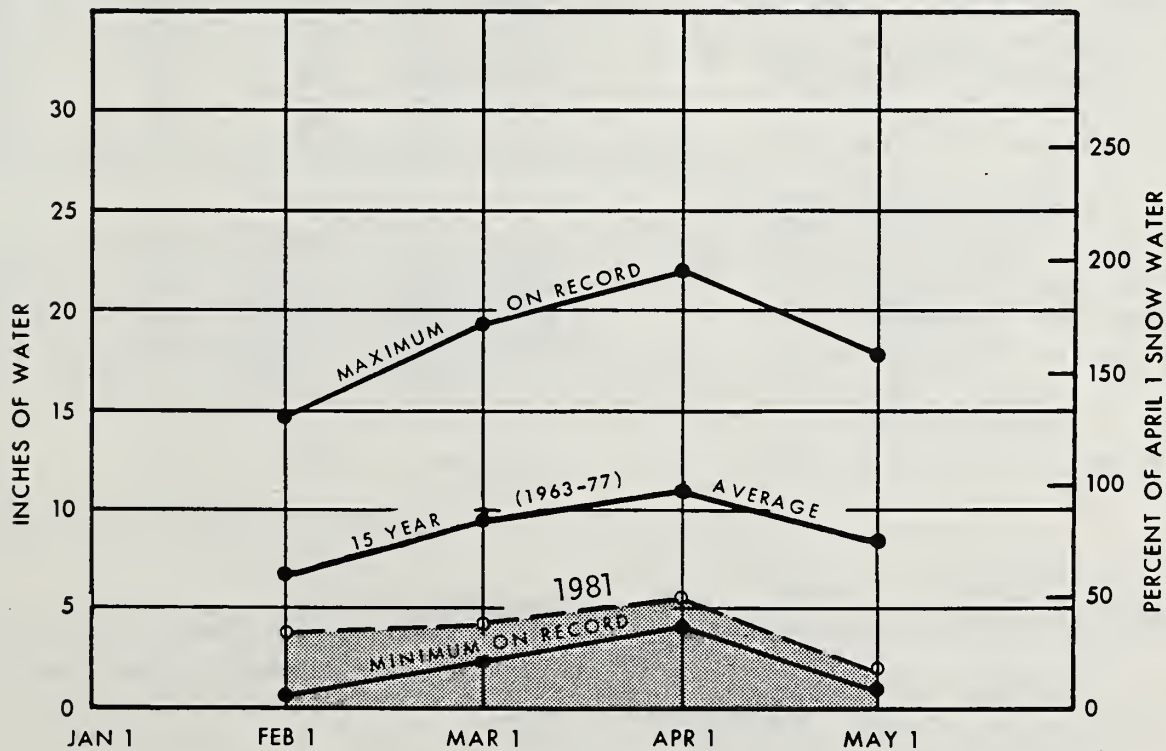
# WINTER SNOWPACK

## UPPER HUMBOLDT & SNAKE BASINS

### NEVADA

#### 1981

Data based on 13 selected Snow Courses



# STREAMFLOW FORECASTS (Thousand Acre Feet) as of: May 1, 1981

Forecasts are based on snow-water presently stored in the mountain watersheds and the assumption that precipitation will be near average throughout the forecast period. Peak flow forecasts indicate the most probable range for the maximum average 24-hour flow. All averages are for 1963-77 period.

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average +
<u>TRUCKEE RIVER</u>				
Little Truckee River above Boca, CA	April-July	35	40	87
Truckee River at Farad, CA <sup>1/</sup>	April-July	130	48	273
Lake Tahoe Rise in Feet (assuming gates closed)	April 1 to high	.65	46	1.42
<u>CARSON RIVER</u>				
East Carson near Gardnerville, NV	April-July	115	62	187
West Carson at Woodfords, CA	April-July	35	66	53
Carson River near Carson City, NV	April-July	95	52	183
Carson River near Fort Churchill, NV	April-July	85	51	167
<u>WALKER RIVER</u>				
East Walker near Bridgeport, CA <sup>2/</sup>	April-Aug.	45	65	69
W. Walker below L. Walker nr Coleville, CA	April-July	95	65	146
<u>SNAKE RIVER</u>				
Owyhee River near Owyhee, NV <sup>3/</sup>	April-July	28	35	80
Owyhee River near Gold Creek, NV <sup>3/</sup>	April-July	6	27	22
Salmon Falls Creek nr San Jacinto, NV	March-Sept.			95
<u>HUMBOLDT RIVER</u>				
Lamoille Creek near Lamoille, NV	April-July	12	43	28
S. Fork Humboldt above Dixie Creek, NV	April-July	30	41	73
Marys River above Hot Springs, NV	April-July	15	41	37
N. Fork Humboldt at Devils Gate, NV	April-July	10	29	35
Humboldt River at Palisade, NV	April-July	75	34	221
Humboldt River at Comus, NV	April-July	60	34	175
Martin Creek near Paradise, NV	April-July	7	47	15
<u>NORTHERN GREAT BASIN</u>				
Bidwell Creek near Fort Bidwell, CA	April-July	7.8	65	12
Mill Creek near Cedarville, CA	April-July	2.6	63	4.1
Deep Creek near Cedarville, CA	April-July	2.3	64	3.6
Eagle Creek near Eagleville, CA	April-July	2.7	63	4.3
<u>COLORADO RIVER</u>				
Virgin River at Littlefield, AZ	May-June	19	65	29

**NOTE:** Streamflow forecasts which appear in this bulletin are a coordinated activity of the National Weather Service and the Soil Conservation Service in an effort to provide the best possible forecasting service to water users.

<sup>1/</sup> Observed flow plus change in storage in Boca, Stampede and Prosser Reservoirs, Donner, Independence and Martis Creek Lakes, and minus the flow at Truckee River at Tahoe City, California.

<sup>2/</sup> Observed flow plus change in storage in Bridgeport Reservoir.

<sup>3/</sup> Observed flow plus change in storage in Wild Horse Reservoir.

+1963-77 Period.



# RESERVOIR STORAGE (Thousand Acre Feet) AS OF May 1, 1981

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
Owyhee	Wild Horse	72	53	63	43
Lower Humboldt	Rye Patch	172	148	163	135
Colorado	Mohave	1,810	1,724	1,551	1,700
Colorado	Mead	26,159	22,691	23,198	17,200
Tahoe	Tahoe	732	393	365	513
Truckee	Boca	41	28	23	30
Truckee	Stampede**	220	142	132	129*
Truckee	Prosser***	30	12	20	12*
Carson	Lahontan	291	236	246	237
West Walker	Topaz	59	44	46	42
East Walker	Bridgeport	42	37	31	32

\* Adjusted average.  
 \*\* Storage began August 1, 1969.  
 \*\*\* Flood Control use allocation of 20,000 acre-feet between November 1 and April 10.

## TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

MONTH	This Year	Last Year	Average †
October 1	883	430	786
January 1	793	432	844
February 1	859	676	920
March 1	898	795	968
April 1	953	875	1,010
May 1	939	937	1,032

The above data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-feet.  
 TOTAL USABLE CAPACITY 1,409

## PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
East Fork Carson River near Gardnerville, NV	950-1200	1,865
Carson River near Carson City, NV	900-1150	2,098
Carson River near Fort Churchill, NV	850-1100	1,914
W. Walker R. below L. Walker R. nr Coleville, CA	900-1150	1,589

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
East Carson River near Gardnerville, NV	200	7/6	7/24
East Carson River near Gardnerville, NV	500	6/11	6/28

† 1963-1977 period.

# SATELLITE SNOW COVER

## TAHOE-TRUCKEE, CARSON AND WALKER BASINS

April 14, 1981



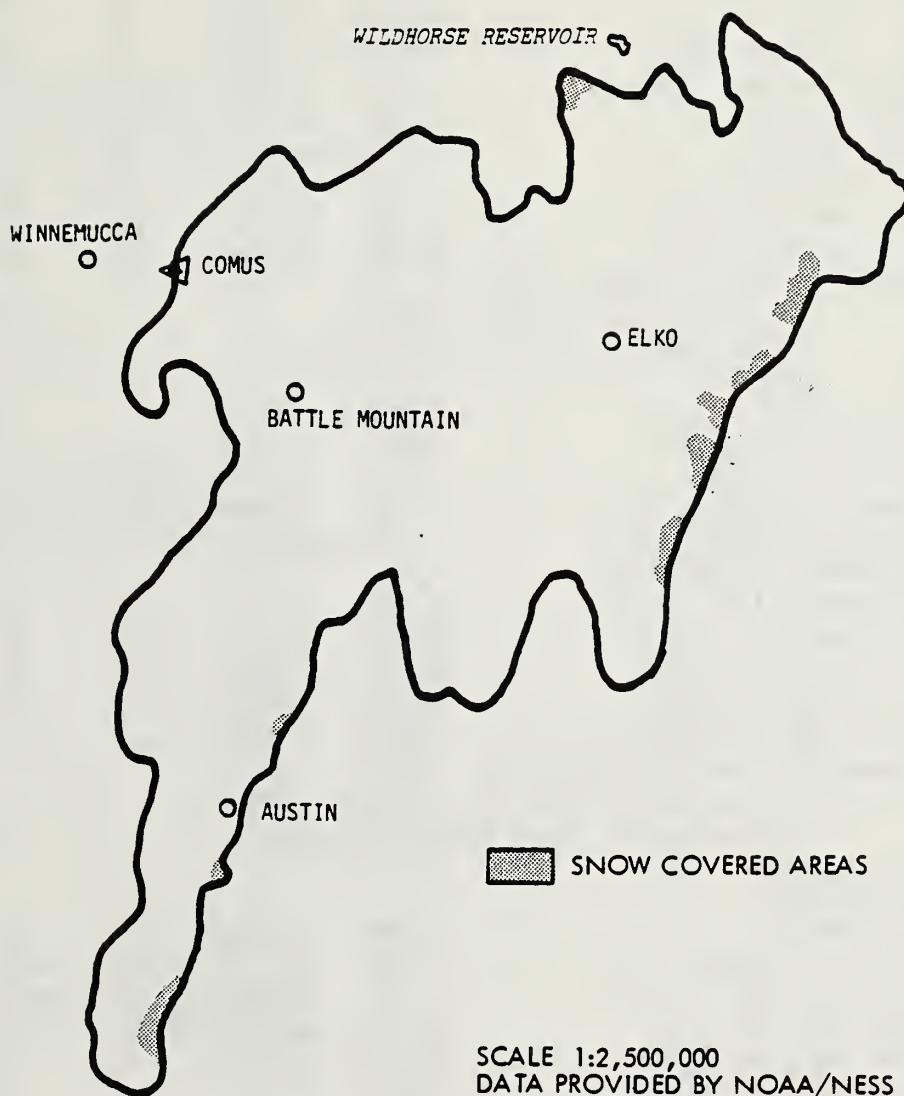
SCALE 1:2,000,000  
DATA PROVIDED BY NOAA/NESS  
WASHINGTON D.C.

BASIN	THIS YEAR	PERCENT SNOW COVER	LAST YEAR	PERCENT SNOW COVER
TAHOE-TRUCKEE	November 27, 1980	8.0%	November 29, 1979	7.0%
	December 28, 1980	11.0%	December 27, 1979	68.0%
	February 1, 1981	62.0%	January 26, 1980	30.0%
	February 22, 1981	26.0%	February 26, 1980	34.0%
	March 28, 1981	36.0%	March 29, 1980	24.0%
	April 14, 1981	19.0%	April 26, 1980	26.0%
CARSON	November 27, 1980	3.0%	November 29, 1979	7.0%
	December 28, 1980	6.0%	December 27, 1979	31.0%
	February 1, 1981	33.0%	January 26, 1980	15.0%
	February 22, 1981	9.0%	February 26, 1980	16.0%
	March 28, 1981	18.0%	March 29, 1980	11.0%
	April 14, 1981	8.0%	April 26, 1980	10.0%
WALKER	November 27, 1980	9.0%	November 29, 1979	3.0%
	December 28, 1980	11.0%	December 27, 1979	68.0%
	February 1, 1981	52.0%	January 26, 1980	25.0%
	February 22, 1981	21.0%	February 26, 1980	32.0%
	March 28, 1981	57.0%	March 29, 1980	27.0%
	April 14, 1981	17.0%	April 26, 1980	21.0%

# SATELLITE SNOW COVER

## HUMBOLDT RIVER ABOVE COMUS, NEVADA

April 28, 1981



<u>THIS YEAR</u>	<u>PERCENT SNOW COVER</u>	<u>LAST YEAR</u>	<u>PERCENT SNOW COVER</u>
November 27, 1980	43.0%	November 27, 1979	71.0%
December 26, 1980	4.0%	December 26, 1979	81.0%
February 1, 1981	89.0%	January 30, 1980	100.0%
February 4, 1981	78.0%	February 4, 1980	80.0%
February 10, 1981	53.0%	February 9, 1980	62.0%
February 22, 1981	13.0%	February 25, 1980	29.0%
March 9, 1981	11.0%	March 10, 1980	26.0%
March 24, 1981	11.0%	March 23, 1980	18.5%
March 29, 1981	40.0%	March 29, 1980	16.0%
April 5, 1981	25.0%	April 7, 1980	23.0%
April 12, 1981	7.0%	April 12, 1980	11.0%
April 28, 1981	3.0%	April 26, 1980	5.0%



# SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †

## LAKE TAHOE

Echo Peak (CA)	7,800	4/29/81	20	9.0	45.8	-
Echo Summit (CA)	7,450	4/30/81	14	6.2	30.9	26.2
Freel Bench (CA)	7,300	4/29/81	0	0.0	0.1	5.8*
Hagan's Meadow (CA)	8,000	4/29/81	0	0.0	17.8	12.3*
Heavenly Valley (CA)	8,800	4/29/81	31	11.8	37.5	24.2*
Marlette Lake	8,000	4/29/81	16	5.3	28.6	20.6*
Rubicon #2 (CA)	7,500	4/29/81	22	9.4	36.6	-
Upper Truckee (CA)	6,400	4/29/81	0	0.0	0.1	2.2*
Ward Creek #2 (CA)	7,000	4/30/81	27	12.5	44.7	38.8
Ward Creek #3 (CA)	6,750	4/29/81	30	12.0	44.6	37.9*

Summary: Total Snow Courses - 8

Snow Water Content Inches (47.8) (204.3) (168.0)

Percent of Last Year, Average (23%) (28%)

## TRUCKEE RIVER

Donner Summit (CA)	6,900	4/27/81	20	9.0	40.1	33.6*
Fordyce Lake (CA)b	6,500	4/29/81	28	14.4	43.9	38.1*
Furnace Flat (CA)b	6,700	4/29/81	47	23.2	56.7	45.5
Independence Camp (CA)	7,000	4/29/81	2	0.6	22.1	17.4*
Independence Creek (CA)	6,500	4/29/81	1	0.4	7.9	6.6*
Independence Lake (CA)	8,450	4/29/81	53	23.1	55.6	46.9*
Mount Rose	9,000	4/29/81	36	16.1	43.6	-
Mount Rose Ski Area	8,850	4/30/81	42	19.3	54.9	38.8*
Squaw Valley #2 (CA)	7,500	4/29/81	55	23.9	62.0	51.7*
Squaw Valley Gold Coast (CA)	8,200	4/29/81	60	27.3**	64.9	-

Summary: Total Snow Courses - 6

Snow Water Content Inches (76.3) (242.6) (195.0)

Percent of Last Year, Average (31%) (39%)

## CARSON RIVER

Blue Lakes (CA)	8,000	4/28/81	49	20.4	42.0	33.7
Carson Pass, Upper (CA)	8,600	4/27/81	36	15.4	40.3	33.1
Ebbetts Pass AM (CA)	8,700	4/29/81	48	20.5a	64.5a	-
Ebbetts Pass #2 (CA)	8,700	4/29/81	49	21.3	58.2	-
Monitor Pass AM (CA)	8,350	4/29/81	4	1.5a	-	-
Poison Flat #2 (CA)	7,900	4/29/81	4	1.4	18.5	-
Wet Meadows Lake AM (CA)	8,050	4/29/81	34	14.0a	38.0a	-
Wet Meadows #2 (CA)	8,050	4/29/81	52	21.3	54.7	-

Summary: Total Snow Courses - 2

Snow Water Content Inches (35.8) (82.0) (66.8)

Percent of Last Year; Average (44%) (54%)

## WALKER RIVER

Leavitt Lake (CA)	9,400	4/28/81	69	30.7	6.86	-
Leavitt Meadows (CA)	7,200	4/28/81	0	0.0	7.8	-
Lobdell Lake (CA)	9,200	4/29/81	14	5.6**	25.0	-
Sonora Pass (CA)	8,800	4/28/81	18	7.4	34.0e	20.3
Sonora Pass Bridge (CA)	8,800	4/28/81	27	10.6	33.8	26.3
Virginia Lakes (CA)	9,500	4/28/81	15	6.2	24.2	15.1*
Virginia Lakes Ridge (CA)	9,200	4/28/81	28	11.0	29.6	16.0*

Summary: Total Snow Courses - 4

Snow Water Content Inches (35.2) (121.6) (77.7)

Percent of Last Year; Average (29%) (45%)



# SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †

## NORTHERN GREAT BASIN

Cedar Pass (CA)	7,100	4/30/81	4	2.1	14.3	15.2*
Dismal Swamp #2 (CA)	7,000	4/30/81	30	10.2**	25.8	-
Summary: Total Snow Courses - 1						
Snow Water Content Inches				(2.1)	(14.3)	(15.2)
Percent of Last Year; Average					(15%)	(14%)

## SNAKE RIVER

Bear Creek AM	7,800	4/29/81	27	9.0 <sub>a</sub>	15.2 <sub>a</sub>	20.8 <sub>a</sub>
Goat Creek	8,800	4/28/81	29	10.2	18.3	20.9
Merritt Mountain AM	7,000	4/29/81	0	0.0 <sub>a</sub>	-	-
Pole Creek Ranger Station	8,330	4/28/81	36	13.7	18.6	23.6
Seventy Six Creek	7,100	4/30/81	0	0.0**	0.0	3.2
Seventy Six Creek AM	7,100	4/29/81	0	0.0 <sub>a</sub>	0.0 <sub>a</sub>	3.2 <sub>a</sub>
Stag Mountain AM	7,700	4/29/81	0	0.0 <sub>a</sub>	-	-
Summary: Total Snow Courses - 4						
Snow Water Content Inches				(32.9)	(52.1)	(68.5)
Percent of Last Year; Average					(63%)	(48%)

## OWYHEE RIVER

Big Bend	6,700	4/28/81	0	0.0	0.0	2.4
Columbia Basin AM	6,650	4/29/81	0	0.0 <sub>a</sub>	-	-
Fawn Creek #2	7,050	4/30/81	25	8.3**	7.8	-
Gold Creek	6,600	4/29/81	0	0.0	0.0	1.0
Jack Creek, Lower	7,250	4/28/81	0	0.0	0.0	0.8
Jack Creek, Upper	7,250	4/28/81	0	0.0	0.0	4.7
Jack Creek #2, Upper	7,250	4/28/81	13	4.3	10.4	-
Jacks Peak	8,420	4/30/81	30	10.0	23.9	26.8
Laurel Draw	6,700	4/30/81	0	0.0**	0.0	-
Taylor Canyon	6,200	4/28/81	0	0.0	0.0	0.5
Summary: Total Snow Courses - 5						
Snow Water Content Inches				(10.0)	(23.9)	(33.3)
Percent of Last Year; Average					(42%)	(30%)

## UPPER HUMBOLDT RIVER

America Beauty AM	7,800	4/29/81	0	0.0 <sub>a</sub>	-	-
Corral Canyon	8,500	4/30/81	29	8.8**	10.7	-
Dorsey Basin	8,100	4/30/81	4	1.1**	3.2	-
Fry Canyon	6,700	4/28/81	0	0.0	0.0	1.5
Green Mountain	8,000	4/30/81	0	0.0**	0.0	-
Lamoille #1	7,100	4/29/81	0	0.0	0.0	4.4*
Lamoille #3	7,700	4/29/81	0	0.0	3.4	8.3*
Lamoille #5	8,700	4/29/81	31	10.5	28.6	30.0*
Robinson Lake AM	9,200	4/29/81	56	16.5 <sub>a</sub>	-	-
Rodeo Flat	6,800	4/28/81	0	0.0	0.0	1.5
Tent Mountain AM, Lower	7,000	4/29/81	0	0.0 <sub>a</sub>	-	-
Tent Mountain AM, Upper	8,350	4/29/81	20	6.5 <sub>a</sub>	-	-
Tremewan Ranch	5,700	4/29/81	0	0.0	0.0	-
Trout Creek, Upper AM	8,500	4/29/81	0	0.0 <sub>a</sub>	-	-
Summary: Total Snow Courses - 5						
Snow Water Content Inches				(10.5)	(32.0)	(45.7)
Percent of Last Year; Average					(33%)	(23%)

+ 1963-1977 period.

# SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †

## LOWER HUMBOLDT RIVER

Big Creek Summit	8,700	4/27/81	32	0.6**	-	-
Buckskin, Lower	6,700	4/30/81	0	0.0**	-	-
Granite Peak	7,800	4/30/81	20	7.2**	-	-
Lamance Creek	6,000	4/30/81	0	0.0	-	-

Summary: Total Snow Courses -  
 Snow Water Content Inches (Insufficient Data)  
 Percent of Last Year; Average

## EASTERN NEVADA

Berry Creek	9,100	4/30/81	30	10.5**	17.4	16.3*
Hole-in-Mountain AM	7,900	4/30/81	0	0.0	-	-
Ward Mountain #2	7,400	4/30/81	12	4.4**	9.9	-

Summary: Total Snow Courses - 2  
 Snow Water Content Inches (10.5) (17.4) (16.3)  
 Percent of Last Year; Average (60%) (64%)

## DESERT RESEARCH INSTITUTE MEASUREMENTS

### TAHOE-TRUCKEE BASIN

Alder Creek	6,960	4/30/81	13	6.7	33.0	-
Apollo Way	7,300	4/29/81	0	0.0	0.0	-
Bennett Flat	6,200	4/30/81	0	0.0	0.0	-
Davis Creek	5,160	4/29/81	0	0.0	0.0	-
Evergreen Hills Road	5,700	4/29/81	0	0.0	0.0	-
Galena Creek	7,440	4/29/81	0	0.0	16.2	-
Hennes Pass Junction	6,410	4/30/81	0	0.0	7.5	-
Hobart Mills	5,850	4/30/81	0	0.0	0.0	-
Incline Lake	8,000	4/29/81	0	0.0	20.4	-
Jones Creek	6,000	4/29/81	0	0.0	0.0	-
Mount Rose Resort	8,280	4/29/81	14	5.1	39.0	-
North Star Fire Department	6,320	4/30/81	0	0.0	0.0	-
Reindeer Lodge	7,060	4/29/81	0	0.0	0.0	-
RNR Test Site	6,400	4/29/81	0	0.0	0.0	-
Sky Tavern	7,620	4/29/81	0	0.0	10.2	-
Spooner Summit	7,620	4/28/81	0	0.0	0.0	-
Squaw Valley Fire Department	6,240	4/30/81	0	0.0	0.0	-
Tahoe City	6,240	4/29/81	0	0.0	0.0	-
Tahoe Meadows	8,540	4/29/81	36	18.0	50.1	-
Tamarack Lake	8,820	4/29/81	32	14.1	47.1	-
Third and Incline Creeks	6,235	4/29/81	0	0.0	0.0	-
Thunder Cliff	6,200	4/30/81	0	0.0	0.0	-
Truckee Airport	5,900	4/30/81	0	0.0	0.0	-
Whites Creek	5,670	4/29/81	0	0.0	0.0	-

a Aerial Marker

b Located on adjacent basin

e Estimated

\* Less than 15-year record

\*\* SNOTEL provisional, depth estimated

NS Not scheduled

NOTE: All averages based on 1963-77, 15-year period. Forecast period is April 1 through July 31 unless otherwise noted.  
 † 1963-1977 period.

# PRECIPITATION (Inches) FOR APRIL 1981 - Soil Conservation Service

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	1979
<u>TAHOE-TRUCKEE</u>							
Echo Peak (CA)	7,800	4/30/81	2.1	4.0	28.0	64.0	34.7
Fallen Leaf (CA)	6,240	5/01/81	0.6	1.9	17.0	41.8	20.5
Hagan's Meadow (CA)	8,000	5/01/81	1.6	2.5	17.2	41.4	28.3
Heavenly Valley (CA)	8,800	5/01/81	2.7	2.8	20.1	38.3	26.4
Independence Camp (CA)	7,000	5/01/81	1.4	1.8	19.8	43.2	27.4
Independence Creek (CA)	6,500	5/01/81	1.0	2.0	17.5	32.7	21.7
Independence Lake (CA)	8,450	5/01/81	2.7	3.5	27.6	57.3	26.8
Marlette Lake	8,000	5/01/81	1.6	2.5	20.0	40.5	28.6
Mt. Rose	9,000	5/01/81	1.1	2.9	17.5	39.9	25.0
Mt. Rose Ski Area	8,850	5/01/81	2.7	5.1	29.6	78.2	44.3
Rubicon #2 (CA)	7,500	5/01/81	2.3	3.4	24.8	52.0	33.1
Squaw Valley Gold Coast (CA)	7,800	5/01/81	2.1	-	36.4	-	-
Tahoe City Cross (CA)	6,750	5/01/81	1.5	2.7	21.8	48.8	-
Truckee #2 (CA)	6,400	5/01/81	0.5	-	17.2	-	-
Ward Creek #3 (CA)	6,750	5/01/81	1.2	4.6	37.2	80.4	52.6
<u>CARSON-WALKER</u>							
Blue Lakes (CA)	8,000	5/01/81	2.5	-	27.7	48.0	36.7
Ebbetts Pass #2 (CA)	8,700	5/01/81	4.9	4.3	35.7	64.8	39.2
Leavitt Meadows (CA)	7,200	5/01/81	1.6	1.8	20.2	39.1	27.6
Lobdell Lake (CA)	9,200	5/01/81	0.7	2.6	15.7	29.4	19.9
Pine Nut Creek* (CA)	6,600	4/30/81	1.1	-	7.7	-	-
Poison Flat (CA)	7,900	5/01/81	1.5	3.4	18.2	40.2	29.9
Sonora Pass Bridge (CA)	8,800	5/01/81	2.1	2.0	21.6	44.4	30.7
Spratt Creek (CA)	6,080	5/01/81	1.8	-	19.8	-	-
Virginia Lakes Ridge (CA)	9,200	5/01/81	1.7	1.6	18.8	34.7	24.8
Wet Meadows #2 (CA)	8,050	5/01/81	1.2	5.2	31.9	60.3	36.5
<u>HUMBOLDT</u>							
Big Creek Summit	8,700	4/27/81	1.5	-	13.1	-	-
Buckskin, Lower	6,700	5/01/81	1.1	-	14.1	-	-
Corral Canyon	8,500	5/01/81	1.6	2.0	15.0	22.7	21.3
Dorsey Basin	8,100	5/01/81	2.9	1.9	16.6	24.5	25.0
Fry Canyon*	6,700	4/28/81	2.4	-	11.4	-	-
Granite Peak	7,800	5/01/81	1.1	-	15.5	-	-
Green Mountain	8,000	5/01/81	1.4	2.2	14.4	22.2	22.5
Lamance Creek	6,000	5/01/81	1.2	-	13.2	-	-
Lamoille #3	7,700	5/01/81	1.7	2.7	14.2	23.7	20.8
Rodeo Flat*	6,800	Not Surveyed	-	1.6	-	15.0	12.7



# PRECIPITATION (Inches) FOR APRIL 1981 - Soil Conservation Service

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	1979
<u>SNAKE-OWYHEE</u>							
Bear Creek	7,800	5/01/81	3.2	2.3	18.1	28.0	23.0
Big Bend	6,700	5/01/81	1.8	1.5	10.4	14.5	12.4
Fawn Creek #2	7,000	5/01/81	3.7	3.1	19.8	28.6	25.0
Goat Creek	8,800	5/01/81	3.5	3.2	17.4	29.7	23.6
Jack Creek #2, Upper	7,250	5/01/81	1.7	1.3	16.1	21.5	20.9
Jacks Peak*	8,420	Not Surveyed	-	7.7	-	34.3	27.0
Laurel Draw	6,700	5/01/81	1.9	1.1	13.8	21.1	18.6
Pole Creek Ranger Station	8,330	5/01/81	2.3	2.6	10.0	17.7	16.0
Seventy Six Creek	7,100	5/01/81	2.1	1.3	10.6	17.1	19.8
Taylor Canyon	6,200	5/01/81	0.8	1.6	5.1	8.8	8.7
<u>EASTERN NEVADA</u>							
Berry Creek	9,100	5/01/81	2.7	1.7	14.9	19.5	17.9
Ward Mountain	8,900	5/01/81	2.2	-	14.7	-	-
<u>NORTHERN GREAT BASIN</u>							
Cedar Pass (CA)	7,100	5/01/81	1.7	2.3	20.9	34.1	26.0
Oisaster Peak	6,500	5/01/81	0.6	-	10.7	-	-
Oismal Swamp #2 (CA)	7,050	5/01/81	1.9	3.9	29.1	43.6	-



# PRECIPITATION (Inches) FOR APRIL 1981, NATIONAL WEATHER SERVICE

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			OCTOBER 1 TO DATE		
		Month's Precipitation	Last Year	Normal <sup>1/</sup>	This Year	Last Year's	Normal <sup>1/</sup>
<u>TRUCKEE-TAHOE</u>							
TRUC							
Boca	5,575	.77	.80	1.56	11.57	22.98	19.13
Glenbrook	6,350	1.26	1.05	1.16	10.79	19.62	15.68
Incline Village	6,550	.81	1.20	1.29	12.42	25.42	19.23
Reno	4,404	.21	.51	.47	2.88	8.44	5.43
Sierraville	4,975	.46	1.34	1.70	13.04	31.42	24.34
Tahoe City	6,230	.74	2.64	2.33	18.62	43.57	30.08
Truckee Ranger Station	5,995	1.04	2.16	2.45	17.05	35.29	29.58
<u>CARSON-WALKER</u>							
Bridgeport Ranger Station	6,560	.02	.52	.46	7.13	14.76	9.39
Carson City	4,651	.36	.78	.54	5.36	14.39	9.68
Fallon Experiment Station	3,965	.47	.44	.33	2.17	3.14	2.92
Hawthorne	4,215	1.25	.83	.51	4.17	3.20	2.70
Minden	4,720	.64	.80	.47	3.67	9.74	6.64
Twin Lakes	7,829	2.80	3.43	4.64	27.76	54.42	45.22
Woodfords	5,971	.76	1.27	1.25	10.23	25.59	17.74
<u>HUMBOLDT</u>							
Austin	6,605	.66	.36	1.47	7.65	6.83	7.73
Battle Mountain	4,530	.03	.39	.76	3.49	5.29	4.71
Deeth	5,338	1.59	1.91	.93	4.61	9.98	5.82
Elko	5,075	.75	1.22	.82	3.94	8.87	6.38
Emigrant Pass	5,755	.30	.63	1.08	4.68	5.40	8.22
Jiggs	5,760	.63	.45	1.35	5.37	7.22	7.41
Lamoille	5,800	.97	.76	2.53	7.10	10.03	12.36
Lovelock FAA	3,900	.36	.45	.36	1.86	4.04	2.96
North Fork	6,600	.82	.71	.80	5.75	10.63	6.82
Paradise Valley	4,675	.21	.55	.59	3.86	9.57	6.74
Wells	5,650	1.30	1.48	.94	3.71	9.07	6.66
Winnemucca	4,301	.19	.26	.73	3.15	4.69	5.78
<u>SNAKE-OWYHEE</u>							
Contact	5,365	2.03	.60	.64	3.99	5.35	4.65
Mountain City	5,620	.80	.91	*	5.38	12.06	*
Owyhee	6,491	1.94	1.17	1.50	7.97	6.81	9.40
Tuscarora	6,170	.23	.97	1.36	5.40	11.24	10.00
<u>EASTERN NEVADA</u>							
Arthur	6,280	.96	.76	1.33	6.01	14.18	10.01
Ely	6,253	1.10	.51	1.00	5.39	5.82	5.06
Montello	4,880		.98	.54		5.74	3.54
Pequop	6,030	.52	1.29	*	3.72	10.45	*
Ruby Lake	6,012	.42	1.02	1.17	4.24	12.58	8.57
<u>NORTHERN GREAT BASIN</u>							
Alturas Ranger Station	4,400	.79	.75	1.00	4.88	10.59	9.41
Cedarville	4,670	.36	.86	.97	6.95	14.68	11.01
Ft. Bidwell	4,498	.56	.72	1.04	10.87	17.88	12.25
Orovada	4,310	.61	.45	1.12	5.06	7.35	7.47
Susanville	4,148	.25	.84	.73	6.96	15.12	12.25
<u>CENTRAL GREAT BASIN</u>							
Tonopah	5,426	.40	.42	.32	2.47	2.49	2.19
<u>LOWER COLORADO RIVER</u>							
Caliente	4,402	.85	.58	.84	5.38	7.48	5.61
Las Vegas	2,162	.02	.18	.27	1.80	5.09	2.37
Pioche	6,165	1.53	1.04	1.34	4.71	12.25	8.95
<sup>1/</sup> NWS NORMALS for 30-year period, 1941-70. * Not Available							

<sup>1/</sup> NWS NORMALS for 30-year period, 1941-70.

\* Not Available.



## AGENCIES COOPERATING IN COLLECTING DATA CONTAINED IN THIS BULLETIN

### FEDERAL

- Agricultural Research Service
- Bureau of Reclamation
- Fish and Wildlife Service
- Forest Service
- Geological Survey
- Soil Conservation Service
- U. S. District Court - Federal Water Master
- NOAA, National Weather Service

### STATE

- California Cooperative Snow Surveys
- California Department of Parks and Recreation
- California Department of Water Resources
- Colorado River Commission of Nevada
- Idaho Cooperative Snow Surveys
- Nevada Association of Conservation Districts
- Nevada Department of Conservation & Natural Resources
  - Division of Water Resources
  - Nevada State Forester
- Oregon Cooperative Snow Surveys
- University of Nevada, Desert Research Institute
- Utah Cooperative Snow Surveys
- White Mountain Research Station, Univ. of California

### PRIVATE

- Amalgamated Sugar Company
- Kennecott Copper Corporation
- Nevada Irrigation District
- Owyhee Project North Board of Control
- Owyhee Project South Board of Control
- Pacific Gas and Electric Company
- Pershing County Water Conservation District
- Sierra Pacific Power Company
- Truckee - Carson Irrigation District
- Walker River Irrigation District
- Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

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## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*